



Caledonian

NEK606 Caledonian Offshore & Marine Cables Instrumentation Cables

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S101 (Formerly S1 or S1/S5) RFOU(i) 250V



APPLICATIONS

These cables are flame retardant, low smoke, halogen free and mud resistant, used for instrumentation, communication, control and alarm systems.

STANDARDS

IEC 60092-376

IEC 60092-360

IEC 60332-1

IEC 60332-3-22

IEC 60754-1,2

IEC 61034-1,2

NEK 606:2016

VOLTAGE RATING

250V

CABLE CONSTRUCTION

Conductors: Circular tinned annealed stranded copper wire to IEC 60228 class 2 or class 5.

Insulation: Halogen free EPR compound or XLPE.

Twinning: Colour coded cores twisted together.

Individual Shielding: Each pairs/triples are screened by copper backed polyester tape in contact with a stranded tinned copper drain wire and wrapped with polyester tape. Pairs/triples are numbered with numbered tape or by numbers printed directly on the insulated conductors.

Bedding: Halogen free compound.

Armour: Tinned copper wire braid.

Outer Sheath: Halogen free thermosetting compound, SHF2 (formerly TYPE S1). Halogen free MUD resistant thermosetting compound, SHF MUD (formerly TYPE S1/S5), coloured grey (blue for intrinsically safe).

MECHANICAL PROPERTIES

Bending Radius: 8×OD (during installation); 6×OD (fixed installed)

Temperature Range: -20°C ~ +90°C

TECHNICAL CHARACTERISTICS



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| Nom. Cross-Section Area | Nom. Conductor Diameter | Maximum Resistance @20°C | Mutual Capacitance | Nominal Inductance @ 1KHz | Maximum L/R @ 1KHz |
|-------------------------|-------------------------|--------------------------|--------------------|---------------------------|--------------------|
| mm ² | mm | Ohm/km | nF/km | MH/km | μH/Ω |
| 1.0 | 1.3 | 19.3 | 100 | 0.649 | 25 |

DIMENSION AND PARAMETERS

| Construction No. of elements×No. of cores in element×Cross section | Nominal Insulation Thickness | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Approx. Overall Diameter | Nominal Copper Weight |
|--|------------------------------|--------------------------------|--------------------------------|--------------------------|-----------------------|
| mm ² | mm | mm | mm | mm | kg/km |
| 6×2×1.0 | 0.6 | 1.1 | 1.5 | 20.7 | 790 |